

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-9. (canceled)

Claim 10. (currently amended) A system for conducting a multimedia conference, comprising:

a plurality of participants each providing multimedia conferencing data including a video signal and an audio signal;

a client in conference with the participants, the client capable of receiving ~~a~~the video signal corresponding to one of the participants at a time;

a participant selection control parameter stored in a memory for tuning a video switching stream behavior, wherein the participant selection control parameter affects the outcome of a weight computation, said participant selection control parameter being ~~specified~~ received when the multimedia conference is set up, said participant control selection parameter and indicating having a static display constraint on a selection of a video signal;

a participant state table stored in a memory and indicating an activity state variable for each participant, said activity state variable including values and statistics associated with the participant's video signal and audio signal; and

a bridge server connected to the participants through a network and having a point-to-point connection with the client, the bridge server assigning a predetermined weight to at least one of the plurality of participants for a duration specified by the static display constraint, receiving simultaneously the multimedia conferencing data including the video signal from each of the participants, updating the activity state variable stored in the memory for each participant in the participant state table according to changes in the data information and the control information of the participant's video signal and audio signal, periodically computing a weight of said each participant based on the activity state variable of said each participant and the participant selection control

parameter, identifying a participant having a highest weight among the participants, and selecting from the received multimedia conferencing data the video signal corresponding to the identified participant having the highest weight for transmission to the client for viewing.

Claim 11. (original) A system as in claim 10, wherein the plurality of participants and the bridge server are connected through a multicast network.

Claim 12. (previously presented) A system as in claim 10, wherein the bridge server further transmits to the client an audio stream containing a mixture of the audio signals from the participants of the network conference.

Claim 13. (previously presented) A system as in claim 10, wherein updating the activity state variable stored in the memory for each participant includes:

- determining a shown length of time for which the video signal of said each participant has been shown to the client if said each participant is currently being shown to the client; and

- wherein the computing of the weight of said each participant includes:

- determining if the shown length of time is less than a first participant selection control parameter of a minimum shown time, and setting the weight to a second participant selection control parameter of a maximum weight if the shown length of time is less than the first participant selection control parameter.

Claim 14. (previously presented) A system as in claim 13, wherein updating the activity state variable stored in the memory for each participant includes:

- determining a talking length of time for which said each participant has been talking; and

- wherein computing the weight of said each participant includes:

- if the shown length of time is more than the first participant selection control parameter, then determining if the talking length of time is less than a third participant selection control parameter of a minimum shown time if active, and setting the weight to

the second participant selection control parameter if the talking length of time is less than the third participant selection control parameter.

Claim 15. (previously presented) A system as in claim 14, wherein the computing of the weight of said each participant by the bridge server includes:

if the shown length of time is more than the first participant selection control parameter and the talking length of time is more than the third participant selection control parameter, then determining if the shown length of time is less than a fourth participant selection control parameter of an active cycle time indicating an upper limit of time for showing a video signal of an active talking participant, and if the shown length of time is less than the fourth participant selection control parameter, then setting the weight to a value increasing the likelihood that said each participant will be identified as having the highest weight.

Claim 16. (previously presented) A system as in claim 15, wherein the computing of the weight of said each participant includes:

if the shown length of time is more than the first participant selection control parameter and the talking length of time is more than the third participant selection control parameter and the shown length of time is more than the fourth participant selection control parameter, then setting the weight to a value decreasing the likelihood that said each participant will be identified as having the highest weight.

Claim 17. (canceled)

Claim 18. (previously presented) A system as in claim 10, wherein the multimedia conferencing data received by the bridge server include a combined video stream having substreams corresponding to the participants, and wherein the bridge server demultiplexes the combined video stream into a plurality of individual video signals each including one of the substreams in the combined video stream.

Claims 19-23. (canceled)

Claim 24. (currently amended) A method for selecting one video signal from a plurality of video signals for forwarding to a client, each video signal corresponding to a participant of multiple participants of a multimedia conference, said method comprising:

when the conference is being set up, ~~specifying~~receiving a participant selection control parameter for the multimedia conference, said participant selection control parameter ~~indicating~~having a static display constraint of selecting the one video signal;

assigning a predetermined weight to at least one of the multiple participants for a duration specified by the static display constraint;

receiving simultaneously multimedia conferencing data from the multiple participants, the multimedia conference data including the plurality of video signals from the participants;

monitoring participant events of the multimedia conference, said participant events associated with the multimedia conferencing data of the participants, said participant events being generated in response to changes in the data information and the control information of the multimedia conferencing data;

providing a participant state table associated with the multimedia conference indicating an activity state variable for each participant of the multimedia conference, said activity state variable including values and statistics associated with the participant's multimedia conference data;

updating at least one of the activity state variables in the participant state table according to the participant events;

periodically computing a weight for each of the participants based on the activity state variable of said each participant and the participant selection control parameter;

identifying a participant having a highest weight among the participants; and

selecting from the received multimedia conferencing data the one video signal corresponding to the identified participant having the highest weight for viewing by the client.

Claim 25. (previously presented) The method of claim 24, wherein the multiple participants are connected to a bridge server through a multicast network.

Claim 26. (previously presented) The method of claim 25, further comprising transmitting to the client an audio stream containing a mixture of audio signals from the multiple participants of the network conference.

Claim 27. (previously presented) The method of claim 24, wherein the computing the weight comprises:

- determining whether each participant's activity state variable indicates the participant is currently being shown to the client, wherein if a first participant's activity state variable indicates the first participant is not being shown to the client and the first participant is talking, a value for the participant selection control parameter for a maximum time that can elapse before a second participant who is not talking is selected is added to the first participant's weight.

Claim 28. (previously presented) The method of claim 24, wherein the updating the activity state variable comprises:

- determining a value for the activity state variable for a length of time for which said each participant has been shown to the client if said each participant is currently being shown; and

- determining whether said each participant is talking;

- wherein the computing the weight comprises:

- if the participant is not talking and the value of the activity state variable is less than a first value for the participant selection control parameter for a time period that each participant's video signal is displayed if none of the participants is talking, setting the weight to a second value for the participant selection control parameter for enhancing a likelihood that the participant will be selected; and

- if the participant is not talking and the value of the activity state variable is greater than the first value for the participant selection control parameter, setting the weight to a third value for the participant selection control parameter for enhancing a likelihood that the participant will not be selected.

Claim 29. (previously presented) The method of claim 24, wherein the updating the activity state variable comprises:

- determining a value for the activity state variable indicating whether said each participant is not sending video; and

- wherein computing the weight for each of the participants comprises:

- if the value for the activity state variable indicates said each participant is not sending video, setting the weight to a value of the participant selection control parameter for a minimum weight.

Claim 30. (previously presented) The method of claim 24, wherein the updating the activity state variable comprises:

- determining a value for the activity state variable for a length of time for which said each participant has been shown to the client; and

- wherein computing the weight for each of the participants comprises:

- if the value for the activity state variable is less than a first value for the participant selection control parameter for a minimum time that a selected participant's video signal will be displayed on the client screen, setting the weight to a second value of the participant selection control parameter for a maximum weight.

Claim 31. (previously presented) The method of claim 24, wherein the multimedia conference data includes a combined video stream containing multiple substreams, each substream corresponding to a video signal of one of the multiple participants, and wherein the receiving includes demultiplexing the combined video stream into the plurality of video signals, each video signal including one of the substreams of the combined video stream.

Claim 32. (previously presented) The method of claim 24, wherein the participant selection control parameter includes at least one member of a group comprising: a maximum weight; a minimum weight; a minimum time that a selected participant's video signal will be displayed on a client screen; a minimum time that a selected participant's video signal will be displayed on the client screen if the participant is still talking; a time period between computing weights and switching video; a time period that an actively

talking participant's video signal is displayed on the client screen if only the actively talking participant is talking; a time period that each participant's video signal is displayed if none of the participants is talking; a value used to enforce a time period that the actively talking participant's video signal is displayed on the client screen if only the actively talking participant is talking, said value being less than a maximum time that can elapse before a participant who is not talking is selected; a value used to enforce a time period that each participant's video signal is displayed on the client screen if none of the participants is talking, said value being less than the time period that each participant's video signal is displayed if none of the participants is talking; and a maximum time that can elapse before a participant who is not talking is selected.

Claim 33. (previously presented) The method of claim 24, wherein the activity state variables includes at least one of a group comprising: a time value for which the participant's video signal was last displayed on a client screen; a time value for which the participant's video signal has been displayed on the client screen; a time value since the participant started talking; a time value since the participant stopped talking; a Boolean value indicating whether the participant is currently talking; a Boolean value indicating whether the participant is currently sending a video signal; and a Boolean value indicating whether the participant's video signal is currently being displayed on the client screen.

Claim 34. (previously presented) The system of claim 10, wherein the participant selection control parameter includes at least one member of a group comprising: a maximum weight; a minimum weight; a minimum time that a selected participant's video signal will be displayed on a client screen; a minimum time that a selected participant's video signal will be displayed on the client screen if the participant is still talking; a time period between computing weights and switching video; a time period that an actively talking participant's video signal is displayed on the client screen if only the actively talking participant is talking; a time period that each participant's video signal is displayed if none of the participants is talking; a value used to enforce a time period that the actively talking participant's video signal is displayed on the client screen if only the actively talking participant is talking, said value being less than a maximum time that

can elapse before a participant who is not talking is selected; a value used to enforce a time period that each participant's video signal is displayed on the client screen if none of the participants is talking, said value being less than the time period that each participant's video signal is displayed if none of the participants is talking; and a maximum time that can elapse before a participant who is not talking is selected.

Claim 35. (previously presented) The system of claim 10, wherein the activity state variables includes at least one of a group comprising: a time value for which the participant's video signal was last displayed on a client screen; a time value for which the participant's video signal has been displayed on the client screen; a time value since the participant started talking; a time value since the participant stopped talking; a Boolean value indicating whether the participant is currently talking; a Boolean value indicating whether the participant is currently sending a video signal; and a Boolean value indicating whether the participant's video signal is currently being displayed on the client screen.